## EXHIBIT 2

## U.S. Patent No. 8,320,566 ("the '0,566 Patent") Exemplary Infringement Chart

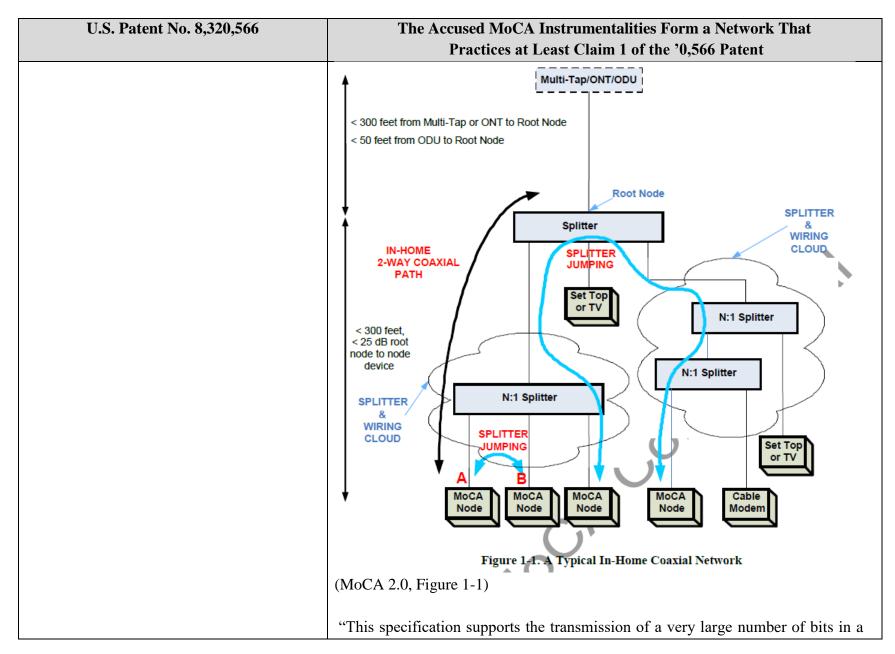
The Accused MoCA Instrumentalities are instrumentalities that Charter deploys to provide a whole-premises DVR network over an on-premises coaxial cable network, with devices operating with data connections compliant with MoCA 1.0, 1.1, and/or 2.0. The Accused MoCA Instrumentalities include the Charter Arris DCX3510, Charter Arris DCX3520, Charter Arris DCX3600, Charter Arris DCX3600, Charter Arris DCX3220, and substantially similar instrumentalities. Charter literally and/or under the doctrine of equivalents infringes the claims of the '0,566 Patent under 35 U.S.C. § 271(a) by using the Accused MoCA Instrumentalities.

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1. A method for communications transmission	The Accused Services are provided using at least the Accused MoCA
using orthogonal frequency division multiple	Instrumentalities including gateway devices (including, but not limited to, the
access on a network comprising:	Charter Arris DCX3510, Charter Arris DCX3520, Charter Arris DCX3600, and
	devices that operate in a similar manner), client devices (including, but not limited
	to, the Charter Arris DCX3200, Charter Arris DCX3220, and devices that operate
	in a similar manner), and substantially similar instrumentalities. The Accused
	MoCA Instrumentalities operate to form a network over an on-premises coaxial
	cable network as described below.
	The Charter full-premises DVR network constitutes a network as claimed. The
	Charter full-premises DVR network is a MoCA network created between gateway
	devices and client devices using the on-premises coaxial cable network. This
	MoCA network is compliant with MoCA 1.0, 1.1, and/or 2.0.
	"The MoCA Network transmits high speed multimedia data over the in-home
	coaxial cable infrastructure. The topology of the in-home coax infrastructure and
	its associated channel characteristics greatly influence all aspects of the MoCA
	architecture. In particular, special attention has been given to ensuring network
	robustness along with inherent low packet error rate performance without the use

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	of retransmissions. This is achieved primarily through the use of full-mesh preequalization techniques using a form of Orthogonal Frequency Division Multiplexing (OFDM) modulation referred to herein as Adaptive Constellation 8 Multitone (ACMT)."  (MoCA 2.0, Section 5)  "For each active ACMT subcarrier, the QAM constellation can vary from 1 to 10
	bits per symbol (BPSK through 1024-QAM) where the average number of bits per subcarrier per ACMT symbol is limited to 9.6. Individual subcarriers can also be turned off. As a result, the number of bits per ACMT symbol varies as a function of the channel path."  (MoCA 2.0, Section 5.2)
	"This specification supports the transmission of a very large number of bits in a single symbol. The messages carrying bandwidth requests on the other hand are relatively short. To take advantage of the high density of the physical layer while limiting the overhead required for sending bandwidth requests without increasing the latency, this specification supports the simultaneous transmission of bandwidth requests by multiple MoCA nodes using Orthogonal Frequency Division Multiple Access (OFDMA)."  (MoCA 2.0, Section 5.3.1)
	Charter utilizes the MoCA standard to provide an on-premises DVR network over an on-premises coaxial cable network as shown below:

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	MoCA Router Connection  IP Client  Router 802.11 b/g/n  2.4 GHz b/g/n  Tablets Smartphones  Wireless IP Client  Wireless IP Client
a) providing a plurality of transmitting	Figure 5 - A Typical Mixed MoCA/WiFi Home Network  The Accused MoCA Instrumentalities operate to provide a plurality of transmitting
network devices with a set of available subcarriers for orthogonal frequency division multiple access;	network devices with a set of available subcarriers for orthogonal frequency division multiple access as described below.
	For example, by virtue of their compliance with MoCA, the Accused MoCA Instrumentalities include circuitry and/or associated software modules that provide a plurality of transmitting network devices with a set of available subcarriers for orthogonal frequency division multiple access.

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	"Typical in-home coaxial networks are configured as a branching tree topology with
	the point of demarcation being at the Point of Entry (PoE), typically on the side or
	the roof of the house, and outlets distributed throughout the house. The PoE is
	typically connected to the first splitter in the home at the point called root node
	through a coax cable. The root node is the common port of the first splitter from
	which all the MoCA nodes can be reached by transversing only through the forward
	paths of splitters. In order to get video and/or broadband data services, the root node
	is connected to a multi-tap in the cable MSO's coax distribution plant, to an Optical
	Network Terminal (ONT) in Fiber-To-The-Curb (FTTC) network., or to an ODU for
	a home with a satellite service. Figure 1-1 shows an example of a typical in-home
	coaxial network. The MoCA devices inside the home communicate with each other
	by having their signals traverse across one or more splitters. When the signal traverses
	between two outputs of a single splitter, this is referred to as "splitter jumping".
	Splitter jumping is always necessary when the signal must traverse between outlets
	in the home."
	(MoCA 2.0, Section 1.2.2)



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	single symbol. The messages carrying bandwidth requests on the other hand are relatively short. To take advantage of the high density of the physical layer while limiting the overhead required for sending bandwidth requests without increasing the latency, this specification supports the simultaneous transmission of bandwidth requests by multiple MoCA nodes using Orthogonal Frequency Division Multiple Access (OFDMA)."  (MoCA 2.0, Section 5.3.1)
	"The MoCA PHY utilizes a modulation technique named ACMT. ACMT is a variation of OFDM where channel parameters are measured and used to pre-equalize all signals using variable bitloading on all subcarriers."  (MocA 2.0, Section 5.2)
	"The NC MUST define between 2~32 Sub-Channels, inclusive, and distribute Sub-Channel Definition Table(s) (Table 6-35). These Sub-Channels need not be equal or contiguous bands, and guard bands are not needed."  (MoCA 2.0, Section 14.9.2)
	"The NC MUST assign Sub-Channels for use by each requesting node participating in a particular OFDMA PHY-frame, and distribute Sub-Channel Assignment Table(s) (Table 6-36). Each OFDMA requesting node MUST be capable of storing and using up to three of these tables, as designated by the NC, and MUST store up to three additional backup tables as defined and distributed by the Backup NC." (MoCA 2.0, Section 14.9.3)
	"The NC MUST assign to each participating requesting node an integer number [] of Sub-Channels."

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	(MoCA 2.0, Section 14.9.3)
b) providing a corresponding element of a pseudorandom noise sequence for each subcarrier of the set of available subcarriers;	The Accused MoCA Instrumentalities operate to provide a corresponding element of a pseudorandom noise sequence for each subcarrier of the set of available subcarriers as described below.
	For example, by virtue of their compliance with MoCA, the Accused MoCA Instrumentalities include circuitry and/or associated software modules that provide a corresponding element of a pseudorandom noise sequence for each subcarrier of the set of available subcarriers.
	"This section describes the indexing for 512 subcarriers, the 32 unavailable subcarriers, and the bit-mapping of serialized PHY payload bits for subcarriers utilizing the new 512-QAM and 1024-QAM constellations. The bit-mappings for subcarriers utilizing lower density constellations (i.e., BPSK through 256-QAM) SHALL remain as described in [7]. Although the bit-mapping process is defined in this section, it SHALL also apply to EVM and Receiver-Determined Probe payloads." (MoCA 2.0, Section 14.3.6)
	"Constellation Bin-Scrambling SHALL be applied to Data/Control PHY-frame payloads as follows: The phase 3 of every used subcarrier (i.e. every subcarrier modulated with one or more PHY payload bits) MUST be 4 scrambled using the 15th-order pseudorandom noise (PN-15) sequence defined by the generator polynomial: $X^{15} + X + 1$ ." (MoCA 2.0, Section 14.3.7)

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	"The Modulation Profile specifies an integer number of PHY payload bits between 0 (no bits) to 10 bits that SHALL be bit-mapped to each of the 480 available subcarriers in every OFDM symbol in a given PHY payload."
	(MoCA 2.0, Section 14.3.6.2)
	"Constellation Bin-Scrambling SHALL be applied to OFDMA PHY-frame payloads as follows: The PN-15 sequence generator SHALL be advanced after each of the 480 available subcarriers in each payload symbol, regardless of which subcarriers are used by the OFDMA transmitter. The seed value of the shift register SHALL be initialized to 0x3EA9 before the beginning of each OFDMA payload. The first bit out of the PN generator SHALL scramble the first available payload subcarrier, prior to the first clocking of the shift register. The sequential scrambling of available subcarriers SHALL occur in ascending order of the subcarrier index."
	(MoCA 2.0, Section 14.3.7)
c) allocating a subset of the set of available subcarriers to each of the transmitting network devices;	The Accused MoCA Instrumentalities operate to allocate a subset of the set of available subcarriers to each of the transmitting network devices as described below.
	For example, by virtue of their compliance with MoCA, the Accused MoCA Instrumentalities include circuitry and/or associated software modules that allocate a subset of the set of available subcarriers to each of the transmitting network devices.
	"OFDMA transmissions are scheduled coincidently, such that PHY-frames from two or more nodes co-occupy the medium simultaneously." (MoCA 2.0, Section 14.1)
	"Orthogonal Frequency-Division Multiple Access (OFDMA) enables multiple nodes to simultaneously transmit PHY-frames, each utilizing only a subset of subcarriers.

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	The OFDMA subcarrier subset is pre-allocated to nodes by the NC on a mutually-
	exclusive basis."
	(MoCA 2.0, Section 14.9)
	"In order to use OFDMA, a MoCA 2.0 NC MUST perform OFDMA LMOs and generate and distribute an OFDMA Sub-Channel Definition Table and OFDMA Sub-Channel Assignment Tables. The NC MUST distribute the OFDMA Sub-Channel Definition Table and OFDMA Sub-Channel Assignment Tables using the Report Elements defined by Table 6-35 and Table 6-36 respectively." (MoCA 2.0, Section 7.2.1)
	"The number of requesting nodes (N <sub>Tx</sub> ) assigned by the NC to co-occupy a particular OFDMA PHY-frame SHALL be between 2 to 8, inclusive." (MoCA 2.0, Section 14.9.1)
d) a transmitting network device of the	The Accused MoCA Instrumentalities include a transmitting network device of the
plurality of devices mapping a packet onto a	plurality of devices mapping a packet onto a plurality of used subcarriers of its
plurality of used subcarriers of its allocated subset of available subcarriers, wherein the step of mapping the packet comprises mapping the packet onto a plurality of	allocated subset of available subcarriers, wherein the step of mapping the packet comprises mapping the packet onto a plurality of quadrature amplitude modulated symbols to be transmitted on the used subcarriers as described below.
quadrature amplitude modulated symbols to be transmitted on the used subcarriers;	For example, by virtue of their compliance with MoCA, the Accused MoCA Instrumentalities include circuitry and/or associated software modules that map a packet onto a plurality of used subcarriers of its allocated subset of available subcarriers, wherein the step of mapping the packet comprises mapping the packet onto a plurality of quadrature amplitude modulated symbols to be transmitted on the used subcarriers.

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	"OFDMA transmitters MUST organize the union of their assigned Sub-Channels into a Modulation Profile and MUST perform Subcarrier Modulation Bit-Mapping in ascending order of subcarrier index number as specified in Section 14.3.6." (MoCA 2.0, Section 14.9.3)
	"For each active ACMT subcarrier, the QAM constellation can vary from 1 to 10 bits per symbol (BPSK through 1024-QAM) where the average number of bits per subcarrier per ACMT symbol is limited to 9.6. Individual subcarriers can also be turned off. As a result, the number of bits per ACMT symbol varies as a function of the channel path."  (MoCA 2.0, Section 5.2)
	"This section describes the indexing for 512 subcarriers, the 32 unavailable subcarriers, and the bit-mapping of serialized PHY payload bits for subcarriers utilizing the new 512-QAM and 1024-QAM constellations. The bit-mappings for subcarriers utilizing lower density constellations (i.e., BPSK through 256-QAM) SHALL remain as described in [7]. Although the bit-mapping process is defined in this section, it SHALL also apply to EVM and Receiver-Determined Probe payloads."  (MoCA 2.0, Section 14.3.6)
	"The Modulation Profile specifies an integer number of PHY payload bits between 0 (no bits) to 10 bits that SHALL be bit-mapped to each of the 480 available subcarriers in every OFDM symbol in a given PHY payload."  (MoCA 2.0, Section 14.3.6.2)

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	PN-15 Input  Mapper $1 \rightarrow -1$ $0 \rightarrow +1$
	Input Constellation (I)  Output Constellation (I)
	Input Constellation (Q) Output Constellation (Q)
	Figure 14-11. Constellation Bin-Scrambler
	(MoCA 2.0, Figure 14-11)
e) the transmitting network device performing	The Accused MoCA Instrumentalities include the transmitting network device
a predetermined transformation on a	performing a predetermined transformation on a quadrature amplitude modulated
quadrature amplitude modulated symbol using	symbol using the element of the pseudorandom noise sequence corresponding to the
the element of the pseudorandom noise	used subcarrier as described below.
sequence corresponding to the used	
subcarrier;	For example, by virtue of their compliance with MoCA, the Accused MoCA
	Instrumentalities include circuitry and/or associated software modules that perform a
	predetermined transformation on a quadrature amplitude modulated symbol using the
	element of the pseudorandom noise sequence corresponding to the used subcarrier.
	"Constellation Bin-Scrambling of OFDMA payloads SHALL be performed as
	described in Section 14.3.7."
	(MoCA 2.0, Section 14.9.6)

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	"Constellation Bin-Scrambling SHALL be applied to OFDMA PHY-frame payloads as follows: The PN-15 sequence generator SHALL be advanced after each of the 480 available subcarriers in each payload symbol, regardless of which subcarriers are used by the OFDMA transmitter. The seed value of the shift register SHALL be initialized to 0x3EA9 before the beginning of each OFDMA payload. The first bit out of the PN generator SHALL scramble the first available payload subcarrier, prior to the first clocking of the shift register. The sequential scrambling of available subcarriers SHALL occur in ascending order of the subcarrier index." (MoCA 2.0, Section 14.3.7)
	PN-15 Input
	Input Constellation (I)  Output Constellation (I)
	Input Constellation (Q)  Output Constellation (Q)
	Figure 14-11. Constellation Bin-Scrambler
	(MoCA 2.0, Figure 14-11)

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f) the transmitting network device transmitting the transformed symbol to a receiving network device.	The Accused MoCA Instrumentalities include the transmitting network device transmitting the transformed symbol to a receiving network device as described below.
	For example, by virtue of their compliance with MoCA, the Accused MoCA Instrumentalities include circuitry and/or associated software modules that transmit the transformed symbol to a receiving network device.
	"The MoCA 2.0 transmitter processing reference model for generating Data/Control PHY-frames from 39 MAC-frames is shown in Figure 14-2." (MoCA 2.0, Section 14.2.1.1)
	MAC Frame FEC Padding Privacy Encryption FEC Encoder Symbol Padding Data Scrambler Scrambler Bit-Mapper Constellation Bin-Scrambler
	Preamble Generator (frequency-domain)
	RF Signal Up-Conversion Filter OFDM Modulator
	Figure 14-2. Transmitter Processing Reference Model for Data/Control PHY-Frames (MoCA 2.0, Figure 14-2)

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	"The final steps in the transmission chain consist of filtering the signal for spectral compliance, then up-converting the complex signal to the appropriate RF frequency for transmission on the medium."  (MoCA 2.0, Section 14.3.10)
	Plaintext  Encryption  ciphertext  LDPC Forward Error Correction  shortened codeword  OFDM Symbol Padding  LDPC Codewords (shortened)  Data-Scrambling
	Subcarrier Modulation Bit-Mapping  OFDM symbol  Filtering & RF Up-Conversion  Transmitted PHY-Frame  Figure 14-3. Example Formation of Data/Control PHY-Frame from MAC-Frame  (MoCA 2.0, Figure 14-3)